

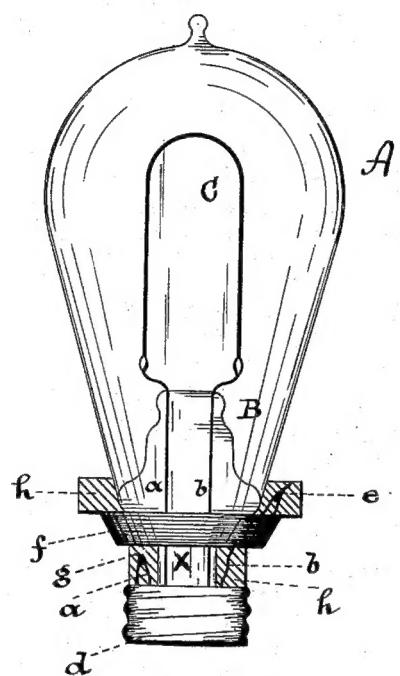
(No Model.)

T. A. EDISON.

INCANDESCENT ELECTRIC LAMP.

No. 317,631.

Patented May 12, 1885.



WITNESSES:

H. W. Howard  
W. J. Blayett.

INVENTOR:

T. A. Edison  
BY Dyer & Weber  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

THOMAS A. EDISON, OF MENLO PARK, NEW JERSEY, ASSIGNOR TO THE EDISON ELECTRIC LIGHT COMPANY, OF NEW YORK, N. Y.

## INCANDESCENT ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 317,631, dated May 12, 1885.

Application filed November 29, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS A. EDISON, of Menlo Park, in the county of Middlesex and State of New Jersey, have invented a new and useful Improvement in Electric Lamps, (Case No. 374,) of which the following is a specification.

When it is intended that an incandescent electric lamp shall be readily removable from or replaceable in its socket or support, and the connection through the lamp from the socket is automatically completed or broken by the act of placing in or removing from position, it is necessary that the lamp be provided with a base, in or upon which are secured contact-plates, forming terminals of the wires leading into the lamp and to the incandescent conductor. Such bases have hitherto been made of several pieces of metal or of wood, or of wood and metal, secured to the lamp by a greater or less quantity of wax or cement.

The object of this invention is to provide the incandescent electric lamp with a base of simpler and cheaper construction; to which end it consists in a base formed upon the neck of the lamp entirely of an insulating plastic material, to which are secured, preferably in the process of manufacture, the necessary contact-plates, such plates being joined together and held upon the neck of the lamp-globe by the plastic material. These contact-plates are preferably in different horizontal planes, and one is a screw-ring, the location of the plates in different horizontal planes permitting the lamp to be revolved while the base is entering a socket without short-circuiting the socket.

In the drawing is shown a lamp and the contact as rings in elevation, while the portion of the base seen is in section.

A is the exhausted globe inclosing the carbon filament C, secured to the leading-in wires a b, which pass through and are sealed into the supporting-tube B, whose lower end projects beyond the globe A as a tube, x. The contacts upon the base are here shown as rings f d, located in different horizontal planes, the latter being screw-threaded to fit a corresponding screw-threaded seat in the socket; but it is evident that these contacts may be of any suitable size or form, and that the invention herein is in no wise dependent upon any particular size or shape of the contacts.

h is the base proper, which is formed in one piece directly upon the neck and bottom of the lamp by molding therein in proper shape a suitable quantity of insulating plastic material. A convenient method of doing this is shown in my prior application, No. 34,651, filed May 31, 1881, which is briefly as follows: To d 55 a wire, g, is attached, and to f a wire, e. g is twisted to the leading-in wire a, and e to b. The contacts are then placed within a mold, the neck of the lamp inserted and held in position, and the space between the contacts and the wire filled with the plastic material. The latter having hardened the lamp-neck is withdrawn from the mold.

The contact-plates, it will be seen, are joined together and supported upon the neck 70 of the lamp by the hardened plastic material. The method is given as typical only, as it is evident that the invention may be carried into effect in many other ways and without the use of a mold at all.

I do not claim herein the method of molding the base directly upon the lamp, nor the mold therefor, as such forms the subject-matter of the application hereinbefore noted; but

What I do claim is—

1. In an incandescent electric lamp, the combination, with the glass inclosing-globe and the neck thereof, of contact-plates joined together and held upon the neck of the lamp by plastic material, substantially as set forth. 80

2. In an incandescent electric lamp, the combination, with the glass inclosing-globe and the neck thereof, of contact-plates located in different horizontal planes, said plates being joined together and held upon the neck 90 of the lamp by plastic material, substantially as set forth.

3. In an incandescent electric lamp, the combination, with the glass inclosing-globe and the neck thereof, of contact-plates, one 95 of which is a screw-ring located in different horizontal planes, said plates being joined together and supported upon the neck of the lamp by plastic material, substantially as set forth.

THOS. A. EDISON.

Witnesses:

PAUL D. DYER,  
WM. H. MEADOWCROFT.